

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460ND



Office of Pesticide Programs

Registration Division (7505P)

MEMORANDUM

DER for acute toxicity studies for #88685-2

February 23, 2016

Subject: Name of the Product Glufosinate 280 Herbicide (amended)
EPA File Symbol: 88685-2
DP Barcode: 431468
Decision No 512955
Action Code: R340
P.C. Codes: 128850

From: Masih Hashim, Ph.D., Team Leader/ Toxicology (CITAB)
Through: John C. Redden, M.S., Senior Risk Assessor (CITAB) *scr 7/1*
Registration Division (7505P)

To: Erik Kraft/ Heather Garvie/ RM 24
Fungicide and Herbicide Branch
Registration Division (7505P)

Applicant: Orion GFS, LLC
Yuma, AZ 85367-7355

FORMULATION FROM THE LABEL	<u>Percent</u>
Glufosinate-ammonium	24.5
Other ingredients	<u>75.5</u>
Total	100.0%

Action Required/Background: Orion GFS has submitted an amendment (R340, DP 431468) with a request to revise the signal word and precautionary language from Warning to Caution. New toxicity studies (MRIDs 498157-02 to -07) were conducted at Stillmeadow Laboratories, Sugarland TX, and submitted to support the amendment. The dermal sensitization study will remain the same as positive (MRID 46279007).

Recommendations: The new submitted studies are acceptable in changing the signal word and precautionary language from Warning to Caution.

The basic CSF (dated 9-21-2011) for the product has been approved by Product Chemistry (CITAB).

PRODUCT ID #: 088685-00002

PRODUCT NAME: Glufosinate 280 herbicide

PRECAUTIONARY STATEMENTS

SIGNAL WORD: CAUTION

Hazards to Humans and Domestic Animals:

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco, or using the toilet. Wear: Long-sleeved shirt and long pants, Socks, Shoes, and gloves.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. For overhead exposure wear chemical-resistant headgear.

First Aid:

If swallowed:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything to an unconscious person.

User Safety Recommendations Recommendation

User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. User should remove PPE immediately after handling this product. Wash outside of gloves before removing, and wash thoroughly and change into clean clothing, as soon as possible.

DER for #88685-2

CURRENT DATE: 2-23-16				
TEST MATERIAL: Recon 280SL Herbicide, P.C. Code128850 Glufosinate 24.5, blue liquid Lot # 20141006				
Study / Species/ Laboratory/Study #/ Date	MRIDs	Results	Tox Category	Core Grad
OPPTS 870.1100 (OECD 425) Up and Down method -Acute oral toxicity / rat/ Stillmeadow/18618-15/4-20-15	49815702	Oral LD ₅₀ Rats is =>5000 mg/kg –Up and Down Method. Females only. One animal died at 5000 mg/kg. The test moved to, a main test was conducted at 175, 550, 1750 and 5000 mg/kg 5000 mg/kg Clinical signs included activity decrease and pilo-erection, only seen in animals that died on test. DOT also showed ataxia, agitation, body tremors, discolored emaciation, hunched posture, ptosis, panting, squinting and walking on tip toes. Animals remained healthy for the rest of the study. Lesion were seen at diseased animal in g.i tract	III	A
OPPTS 870.1200- (OECD 402) Acute dermal toxicity/rat / Stillmeadow/ 18928-15/ 1-7-2016	49815703	Dermal LD ₅₀ - m+f >5050 mg/kg All animals remained healthy after the test application. There were no dermal lesions. No other clinical effects were seen. Terminal necropsy showed no abnormal findings.	IV	A
OPPTS 870.1300-(OECD 403) Acute inhalation toxicity/ rat / Stillmeadow /#19486-15/ 1-11-16	49815704	LC ₅₀ Males/females > 2.12 mg/L MMAD 3.9 µm, All rats survived the test exposure. All rats showed hunched posture, lethargy, nasal discharge, thinness and staining on days 3-7. Five animals lost body wt. between days 0-7. Necropsy showed discolored lungs in 4 animals. No other gross lesions were noted for any animals at terminal necropsy.	IV	A
OPPTS 870.2400 (OECD 405) Primary eye irritation study/rabbit Stillmeadow/#18619-15/2-24-15	49815705	Mild conjunctivitis seen in all animals. This cleared up within 24 hrs	IV	A
OPPTS 870-2500 (OECD 404) Primary dermal irritation/ /rabbit/ Stillmeadow/18930-15/1-7-16	49815706	Not an irritant PDII 0	IV	A
Dermal sensitization study (cited)	46279007	According to the Registrant the previous study will be used.	positive	C

A= acceptable, U= unacceptable, W=waiver, S=Supplementary, C=cited